

Completed as shut-in oil well
4/2/77

FILE NOTATIONS

Entered in NID File

Entered On S R Sheet

Location Map Pinned

Card Indexed

IWR for State or Fee Land

Checked by Chief

Copy NID to Field Office

Approval Letter

Disapproval Letter

COMPLETION DATA:

Date Well Completed

OW SI WW

GW

OS

TA

PA

Location Inspected

Bond released

State of Fee Land

LOGS FILED

Driller's Log

Electric Logs (No.)

E

I

E-I

GR

GR-N

Micro

Lat

M-L

Sonic

Others

CDW 8-22-77

*St. Croix
Exploration*

Copy - put copy in #1 & #2 file

ENVIRONMENTAL ASSESSMENT

for

Utah State #1 & #2
Wildcat Oil and/or Gas Wells

on

State of Utah ML 33432

Section 36

Township 24 South, Range 11 East

Emery County, Utah

January 13, 1977

Prepared by:

Utah Division of Oil, Gas, and Mining
Patrick L. Driscoll, Chief Petroleum Engineer

I. DESCRIPTION OF THE PROPOSED ACTION:

~~C.B. Woodward~~ ^{St. Croix} Consultant, plans to drill on State oil and gas lease No. ML 33432, Section 36, Township 24 South, Range 11 East, SLBM, Emery County, to determine the liquid hydrocarbon potential of the Triassic Moenkopi Formation. Maximum depths of drilling will be about 300 feet.

The proposed locations are shown on the attached plat.

II. DESCRIPTION OF THE ENVIRONMENT POTENTIALLY AFFECTED:

The area is in an extremely dry wash on the southeast flank of the San Rafael Swell, known as the San Rafael Reef. The Reef immediately to the SE of the sites is characterized by east-facing long dip slopes eroded on the Kayenta and Navajo Formations, with steep west-facing cliffs eroded into the above formations as well as the Wingate Formation. The elevation of the two sites is between 5400 and 5440 feet.

Precipitation in this area is between 8 to 10 inches annually.

The flora and fauna of the area coincides with the general known desert surroundings; outside of the basic native desert terrain, there are several manmade access roads to mining areas. As a matter of fact, the access road to these locations follow, and at terminal end, are less than 25 feet from the access route to the two proposed sites.

Access to the area is via a number of dirt roads that serve the Temple Mountain uranium mining district. This area has been producing ore since 1912 when radium ore was shipped. In 1948, mining activity resumed with uranium ore production and a fairly high level of mining activity has persisted to date. Drilling activity has been high and in general the area has been heavily impacted by minerals exploration.

A review of two core holes specifically drilled for mineralized projects indicated a disturbance of less than 100 to 150 feet. It is significant to note that the proposed depth of the oil wells under consideration shall

not exceed the depth of the previously drilled core holes. A series pictures were taken of the general area. Significantly, two of the pictures represent and enhance the area. The proposed sites are in the near proximity.

III. PROBABLE IMPACT OF THE PROPOSED ACTION ON THE ENVIRONMENT:

The ground disturbance will be minimal due to the extremely small locations and a relatively short drilling time.

IV. MITIGATIVE MEASURES INCLUDED IN THE PROPOSED ACTION:

Stabilizing of the proposed drill pad is planned by the operator following completion of the two test wells. The area will be graded, leveled, and seeded, as indicated.

V. ALTERNATIVES TO THE PROPOSED ACTION:

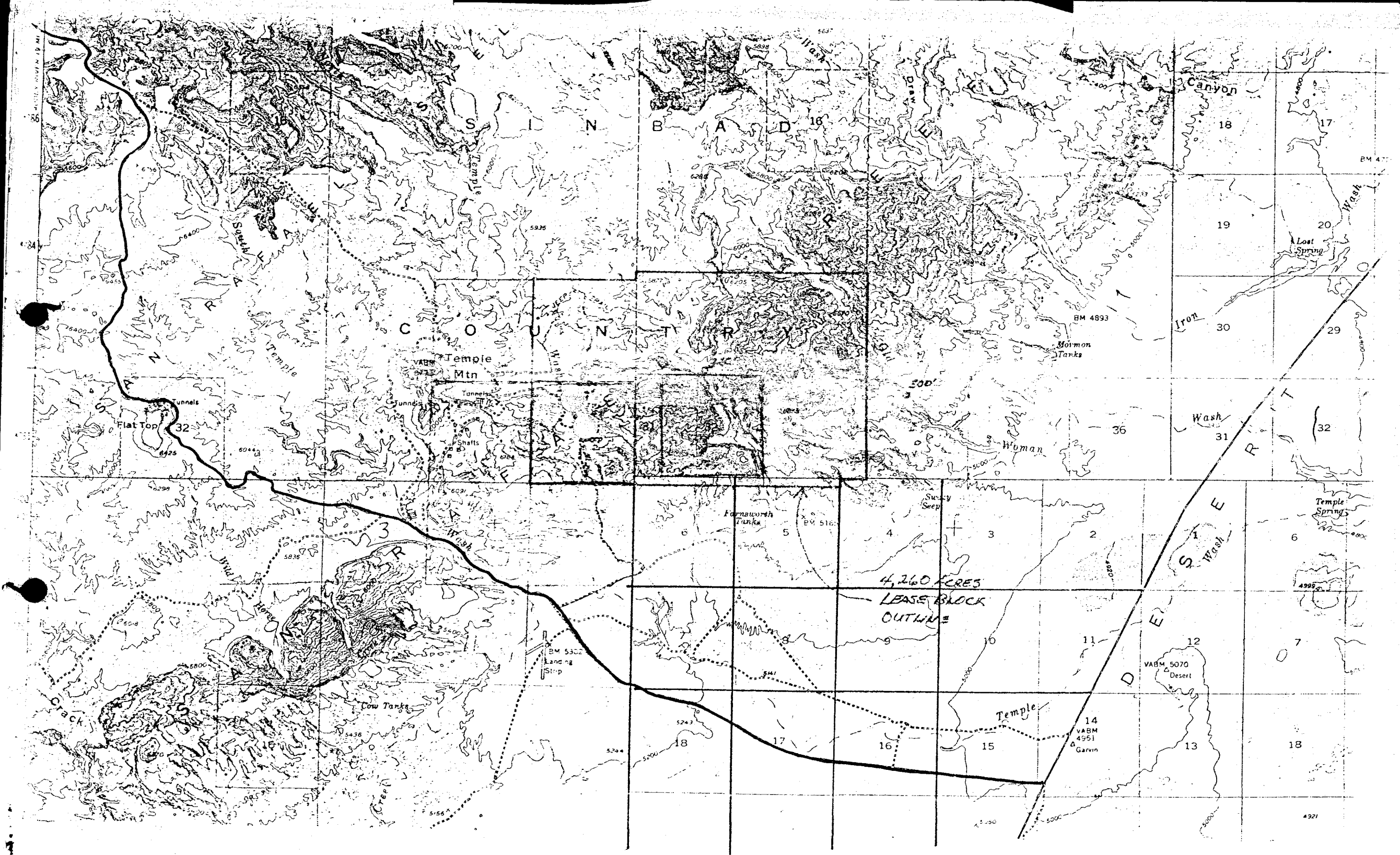
There is no alternative location within the area which would be less environmentally sensitive than the site under consideration.

The only other viable alternative would be to disapprove the applications to drill. However, this could result in the operator losing his lease followed by prolonged and expensive litigation against the state. In addition, denial would eliminate possible development in the area.

VI. SUMMARY AND RECOMMENDATIONS:

It is felt that minimal disturbance surrounding the native regime will be incurred by granting permission to drill the two proposed wells. In fact, the two previously completed core holes have probably disturbed the area far more than the wells under consideration.

It is, therefore, the recommendation of the Division of Oil, Gas, and Mining, that the applicant be allowed to actively engage in the drilling of two potential oil and/or gas wells in the vicinity of the two core holes previously approved by the Division of State Lands.



STATE OF UTAH
Office of the
STATE PLANNING COORDINATOR
118 State Capitol
Salt Lake City, Utah 84114
(801) 533-5246

Ron Daniels
Division of Oil, Gas and Mining
1596 West North Temple
Salt Lake City, Utah 84116

The Environmental Coordinating Committee has reviewed the Environmental Assessment for Utah State #1 & #2 Wildcat Oil and/or Gas Wells on State of Utah ML 33432 Section 36 Township 24 South, Range 11 East, Emery County, Utah and unanimously considers the document to be adequate.

Cham

DECLASSIFIED

DATE _____
BY _____
ACROSS _____
31

St. Croix Exploration Company

~~XXXXXXXXXXXX~~

St. Paul, Minnesota 55118

612/457-3208

2471 Angell Road
petroleum ventures

February 23, 1977

State Of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
1588 West North Temple
Salt Lake City, Utah 84116

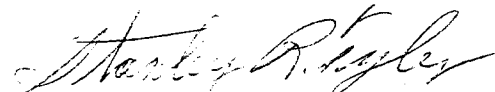
Re: Lease ML - 33432

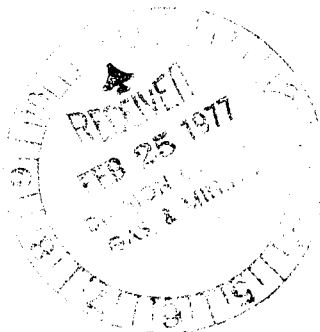
Gentlemen:

Enclosed are two applications for Permit to Drill, ~~Emery~~ Emery County, Utah. The attached location plat will be confirmed by a registered surveyor and submitted for approval in the near future.

If additional information is required, please contact us at the above address.

Very truly yours,


Stanley R. Tyler
Vice President



STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

5. Lease Designation and Serial No.

ML 33432

6. If Indian, Allottee or Tribe Name

7. Unit Agreement Name

8. Farm or Lease Name

Utah State

9. Well No.

1

10. Field and Pool, or Wildcat

Wildcat

11. Sec., T., R., M., or Blk.
and Survey or Area

Sec. 36, T24S, R11E

12. County or Parrish 13. State

Emery County,

1a. Type of Work

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. Type of Well

Oil
Well ☐Gas
Well ☐

Other

Single
Zone ☐Multiple
Zone ☐

2. Name of Operator

St. Croix Exploration Co.

3. Address of Operator

2471 Angell Road, St. Paul, Minnesota 55118

4. Location of Well (Report location clearly and in accordance with any State requirements.)*

At surface

2314.32 FNL, 1626.2 FWL Sec. 36

At proposed prod. zone Same

14. Distance in miles and direction from nearest town or post office*

21 miles North-Hanksville

15. Distance from proposed*

location to nearest
property or lease line, ft.
(Also to nearest drlg. line, if any)

16. No. of acres in lease

640

17. No. of acres assigned
to this well

40

18. Distance from proposed location*
to nearest well, drilling, completed,
or applied for, on this lease, ft.

1100' (#2)

19. Proposed depth

300'

20. Rotary or cable tools

Rotary

21. Elevations (Show whether DF, RT, GR, etc.)

5411 Gr.

22. Approx. date work will start*

On receipt of permit

23.

PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
7 7/8"	5 1/2"	17#	300'	160 sx

Proposed Program: Drill with air to total depth coring sections exhibiting oil shows, running logs, set 5 1/2 in. casing to total depth, circulating cement to surface.

Surface formation: Triassic Shinarump
Formation at T.D.: Triassic Moenkopi

Location plat attached

Telephone: (612) 457-3208



IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

Signed

Stanley R. Tyler

Title Vice President

Date 2-21-77

(This space for Federal or State office use)

Permit No.

B-015-30048

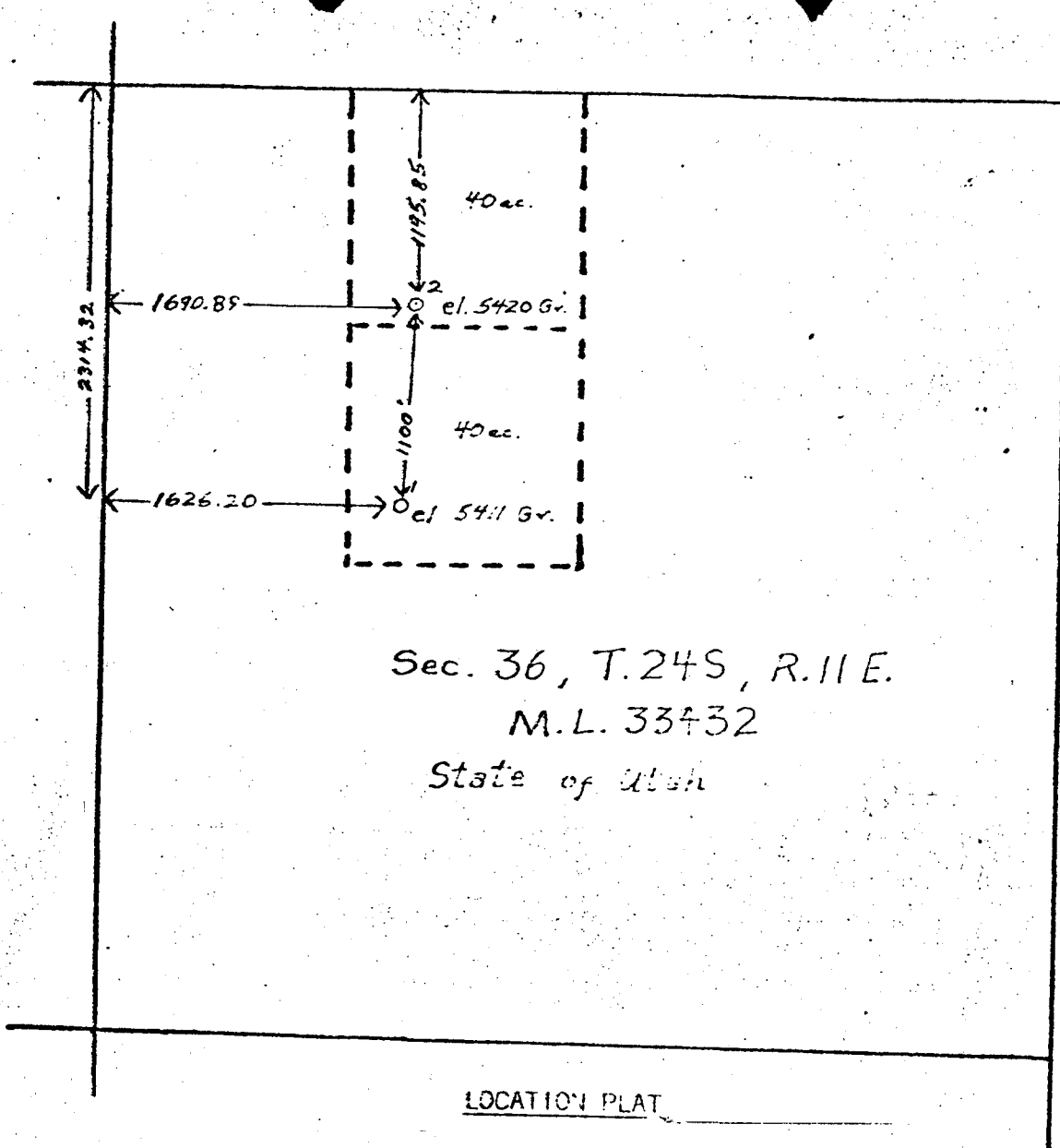
Approval Date

Approved by

Title

Date

Conditions of approval, if any:



St. Croix Exploration Company
 2471 Angell Road
 St. Paul, Minnesota 55118

Well No. 1: 1626.20 FWL, 2314.32 FNL,
 Sec. 36, T. 24 S., R. 11 E.
 (Ground Elevation - 5411)

Well No. 2: 1690.89 FWL, 1195.85 FNL,
 Sec. 36, T. 24 S., R. 11 E.
 (Ground Elevation 5420)

Scale 1 in. = 1000 ft.

St. Croix Exploration Co.

February 22, 1977

By Stanley R. Tyler
 Stanley R. Tyler
 Vice President

STATE OF UTAH
DIVISION OF OIL, GAS, AND MINING

** FILE NOTATIONS **

Date:

Feb. 28-

Operator:

St. Craig Exploration Co.

Well No:

Utah State #1

Location:

Sec. 36 T. 24S R. 11E County: Canyon

File Prepared

☒

Entered on N.I.D.

☒

Card Indexed

☒

Completion Sheet

☒

CHECKED BY:

Administrative Assistant

SW

Remarks:

No other wells in
Truship

Petroleum Engineer

RB

Remarks:

Director

X

Remarks:

Not Approved
Need request for
Topo. or geological
exception
Also, send to
Submit E.I.S.

INCLUDE WITHIN APPROVAL LETTER:

Bond Required

☐

Survey Plat Required

☐

Order No.

10000 map

Surface Casing Change
to

☐

Rule C-3(c), Topographic exception/company owns or controls acreage
within a 660' radius of proposed site ☒

O.K. Rule C-3

☐

O.K. In

Unit ☐

Other:

☒ Letter Written/Approved

Finally filed under C.B. Standard

March 2, 1977

St. Croix Exploration Company
2471 Angell Road
St. Paul, Minnesota 55118

Re: Well No's: ✓
Utah State #1, Utah State #2
Sec. 36, T. 24 S, R. 11 E,
Emery County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to well is hereby granted in accordance with Rule C-3 (c), General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

PATRICK L. DRISCOLL - Chief Petroleum Engineer
HOME: 582-7247
OFFICE: 533-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling.

The API numbers assigned to these wells are:

✓
#1: 43-015-30048 #2: 43-015-30049

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

CLEON B. FEIGHT
Director

cc: Division of State Lands

CIRCULATE TO:

DIRECTOR
PETROLEUM ENGINEER
MINE COORDINATOR
ADMINISTRATIVE ASSISTANT
ALL

RETURN TO Kathy
FOR FILING

☒ J.P.
☒
☒
☒
☒
☒ K

March 10, 1977

Memo to File:

Re: St. Croix Petroleum Company
State #1
Sec. 36, T. 24 S., R. 11 E.
Emery County, Utah

This office was notified on the 8th of March 1977, that a rotary rig was to be in on the above location on the same date.

The spud date for this well was to be somewhere around the 9th of March 1977.

PATRICK L. DRISCOLL
CHIEF PETROLEUM ENGINEER

/tlb

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN DUPLICATE
 (See other instructions
 on reverse side)

⑥

P

6

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> Other _____				5. LEASE DESIGNATION AND SERIAL NO. ML 33432'	
b. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> Other <u>waiting on Swab test</u>				6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR St. Croix Exploration Co.				7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR 2471 Angell Rd., St. Paul, MN 55118				8. FARM OR LEASE NAME Utah State	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 2314.32 FNL At top prod. interval reported below 1626.2 FWL At total depth Sec. 36				9. WELL NO. 1	
14. PERMIT NO. 43-015-30048				10. FIELD AND POOL, OR WILDCAT Wildcat	
DATE ISSUED				11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec. 36, T 24S, R 11-E	
15. DATE SPUDDED 3/28/77		16. DATE T.D. REACHED 4/2/77		12. COUNTY OR PARISH Emery Co.	
17. DATE COMPL. (Ready to prod.) --		18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 5411' Gr.		13. STATE Utah	
20. TOTAL DEPTH, MD & TVD 209'		21. PLUG, BACK T.D., MD & TVD --		19. ELEV. CASINGHEAD 5412'	
22. IF MULTIPLE COMPL., HOW MANY*		23. INTERVALS DRILLED BY Rotary tools to TD		25. WAS DIRECTIONAL SURVEY MADE no	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* To be tested				27. WAS WELL CORED yes	
26. TYPE ELECTRIC AND OTHER LOGS RUN GR-N, velocity-density, temp. survey					
28. CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9"	21 lbs.	20'	10 1/4"	5 sacks	
5 1/2"	17 lbs.	209'	7 7/8"	75 sacks	
29. LINER RECORD					
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	
30. TUBING RECORD					
SIZE	DEPTH SET (MD)	PACKER SET (MD)			
31. PERFORATION RECORD (Interval, size and number)					
Perf. 96' - 146' with 5/8" diameter and 144 shots					
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.					
DEPTH INTERVAL (MD)			AMOUNT AND KIND OF MATERIAL USED		
33. PRODUCTION					
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) to be tested after next wells drilled		WELL STATUS (Producing or shut-in) shut-in	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)				TEST WITNESSED BY	
35. LIST OF ATTACHMENTS					
GRN velocity-density core analyses					
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records					
SIGNED <u>Stanley B. Kyle</u>		TITLE <u>Vice President</u>		DATE <u>7/19/77</u>	

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES				38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
			See Core Analyses	Surface sand	0 - 8'	
				Moss back Fm.	8 - 154'	
				Moenkopi	154 - 202'	

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. ML 32432
2. NAME OF OPERATOR St-Croix Exploration		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR 1360 Sheldard Tower, Minneapolis, MN. 55426		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2314 FNL, 1626 FWL.		8. FARM OR LEASE NAME Utah State
14. PERMIT NO. APF 43-015-30045-00		9. WELL NO. 1
15. ELEVATIONS (Show whether OF, RT, GR, etc.) 5411 GR		10. FIELD AND POOL, OR WILDCAT wildcat.
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SEC 36, T24S, R11E
NOTICE OF INTENTION TO:		12. COUNTY OR PARISH 13. STATE Emery Utah
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	
(Other) <input type="checkbox"/>	<input checked="" type="checkbox"/>	
SUBSEQUENT REPORT OF:		
WATER SHUT-OFF <input type="checkbox"/>		REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>		ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>		ABANDONMENT* <input type="checkbox"/>
(Other) <input type="checkbox"/>		
(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)		

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting and proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

This well was drilled to TD of 705' in July 1977. Testing indicated this well was incapable of producing ^{Primary} oil in commercial quantities. The study of the potential of the Chinle and Moenkopi oil bearing formations in this well and others drilled and cored continues. Secondary Recovery Proposals have been submitted to this office for consideration which should lead to a proposal which will be submitted to your office before further field operations are begun.

18. I hereby certify that the foregoing is true and correct

SIGNED

S. R. Tyler

TITLE

Vice Pres

DATE

5-19-82

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

CORE ANALYSIS RESULTS

ST. CROIX EXPLORATION COMPANY

ST. CROIX NO. 1

TEMPLE MOUNTAIN

EMERY COUNTY, UTAH

CORE ANALYSIS RESULTS

Company ST. CROIX EXPLORATION COMPANY Formation SHINARUMP File RP-2-5305
 Well ST. CROIX NO. 1 Core Type DIAMOND 2" Date Report 3-15-77
 Field TEMPLE MOUNTAIN Drilling Fluid GEL Analysts RG
 County EMERY State UTAH Elev. 5411' GL Location SW SE NW SEC. 36-T24S-R11E

Lithological Abbreviations

SAND - SD SHALE - SH LINE - LN DOLOMITE - DOL CHERT - CH GYPSUM - GYP ANHYDRITE - ANHY CONGLOMERATE - CONG FOSSILIFEROUS - FOSS SANDY - SDY SHALY - SHY LIMY - LMY FINE - FN MEDIUM - MED COARSE - CSE CRYSTALLINE - XLN GRAIN - GRN GRANULAR - GRNL BROWN - BRN GRAY - GY VUGGY - VGY FRACTURED - FRAC LAMINATION - LAM STYLOLITIC - STY SLIGHTLY - SL/ VERY - V/ WITH - W/

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYs	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		OIL WT. %	SAMPLE DESCRIPTION AND REMARKS	GRN. DNS.
				OIL	TOTAL WATER			
								(K _A)
1	54.0-55.0	1.5	9.3	12.2	30.5	0.43	SS Tn MG V/Cly SL/Calc	2.70
2	55.0-56.0	0.67	9.6	15.8	31.6	0.57	SS Tn MG V/Cly SL/Calc	
3	56.0-57.0	0.23	9.5	14.2	32.4	0.50	SS Tn MG V/Cly SL/Calc	
4	57.0-58.0	0.35	11.1	26.1	27.8	1.07	SS Tn MG V/Cly SL/Calc	
5	58.0-59.0	0.52	10.3	23.2	24.1	0.89	SS Tn FG V/Cly SL/Calc	
6	59.0-60.0	0.83	11.7	20.2	17.7	0.89	SS Tn FG V/Cly SL/Calc	2.63
7	60.0-61.0	1.1	9.5	12.1	22.2	0.43	SS Tn FG V/Cly SL/Calc	
8	61.0-62.0	0.07	9.2	2.1	22.6	0.07	SS Wh FG V/Cly SL/Calc	
9	62.0-63.0	1.5	10.7	12.4	21.3	0.50	SS Tn FG V/Cly SL/Calc	
10	63.0-64.0	0.60	8.4	16.7	33.3	0.50	SS Tn FG V/Cly SL/Calc	
11	64.0-65.0	0.15	10.0	33.1	43.5	1.14	SS Tn FG V/Cly SL/Calc	2.65
12	65.0-66.0	0.31	10.8	29.8	41.0	1.14	SS Tn FG V/Cly SL/Calc Shy	
13	66.0-67.0	0.20	10.4	27.7	49.5	1.00	SS Tn FG V/Cly SL/Calc	
14	67.0-68.0	1.7	11.5	15.3	46.0	0.64	SS Tn FG V/Cly SL/Calc	
15	68.0-69.0	2.6	11.5	15.3	40.7	0.64	SS Tn FG V/Cly SL/Calc Pyr	2.64
16	69.0-70.0	0.38	12.4	16.6	42.7	0.75	SS Tn FG V/Cly SL/Calc	
17	70.0-71.0	0.20	12.2	32.7	40.8	1.43	SS Tn FG V/Cly SL/Calc	
18	71.0-72.0	0.12	11.2	31.8	30.0	1.29	SS Tn FG V/Cly SL/Calc Pyr	
19	72.0-72.8	0.11	7.9	2.5	49.6	0.07	SS Wh FG V/Cly SL/Calc Pyr	2.66
20	76.3-76.8	0.04	6.6	13.7	39.6	0.32	SS Tn FG V/Cly	
21	88.7-89.1	0.28	9.9	24.8	31.7	0.89	SS Tn FG V/Cly	
22	93.0-94.0	0.13	8.4	0.0	52.4	0.00	SS Wh FG V/Cly S & P	2.65
23	94.0-95.0	0.19	6.9	0.0	48.3	0.00	SS Wh FG V/Cly S & P Shy Calc	
24	95.0-96.0	0.12	7.0	1.5	63.9	0.04	SS Wh FG V/Cly S & P Shy Calc	
25	96.0-97.0	0.20	6.4	0.0	60.5	0.00	SS Wh FG V/Cly S & P Shy Calc	
26	97.0-98.0	3.1	14.2	24.2	29.6	1.29	SS Tn VFG V/Cly	2.64
27	98.0-99.0	16	13.1	27.9	29.3	1.36	SS Tn VFG V/Cly	
28	99.0-00.0	18	13.9	24.7	28.8	1.29	SS Tn FG V/Cly	
29	100.0-01.0	30	14.0	27.1	20.3	1.43	SS Tn FG V/Cly	
30	101.0-02.0	15	11.2	24.7	33.5	1.00	SS Tn FG V/Cly	2.65
31	102.0-03.0	0.66	13.3	23.2	33.3	1.14	SS Tn VFG V/Cly	

Core #1 - Retorted Oil Gravity = 25 Deg.

Core #2 - Retorted Oil Gravity = 22 Deg.

BEST COPY
AVAILABLE



CORE LABORATORIES, INC.

Petroleum Reservoir Engineering

COMPANY ST. CROIX EXPLORATION COMPANY FIELD TEMPLE MOUNTAIN FILE RP-2-5305
WELL ST. CROIX NO. 1 COUNTY EMERY DATE 3-15-77
LOCATION SW SE NW SEC. 36-T24S-R11E STATE UTAH ELEV. 5411' GL

CORE-GAMMA CORRELATION

These analyses, opinions or interpretations are based on observations and material supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted), but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations as to the productivity, proper operation, or profitability of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

VERTICAL SCALE: 5" = 100'

CORE-GAMMA SURFACE LOG

(PATENT APPLIED FOR)

GAMMA RAY

RADIATION INCREASE →

COREGRAPH

TOTAL WATER

PERCENT TOTAL WATER

80 60 40 20 0

PERMEABILITY

MILLIDARCY

100 50 10 5 1

POROSITY

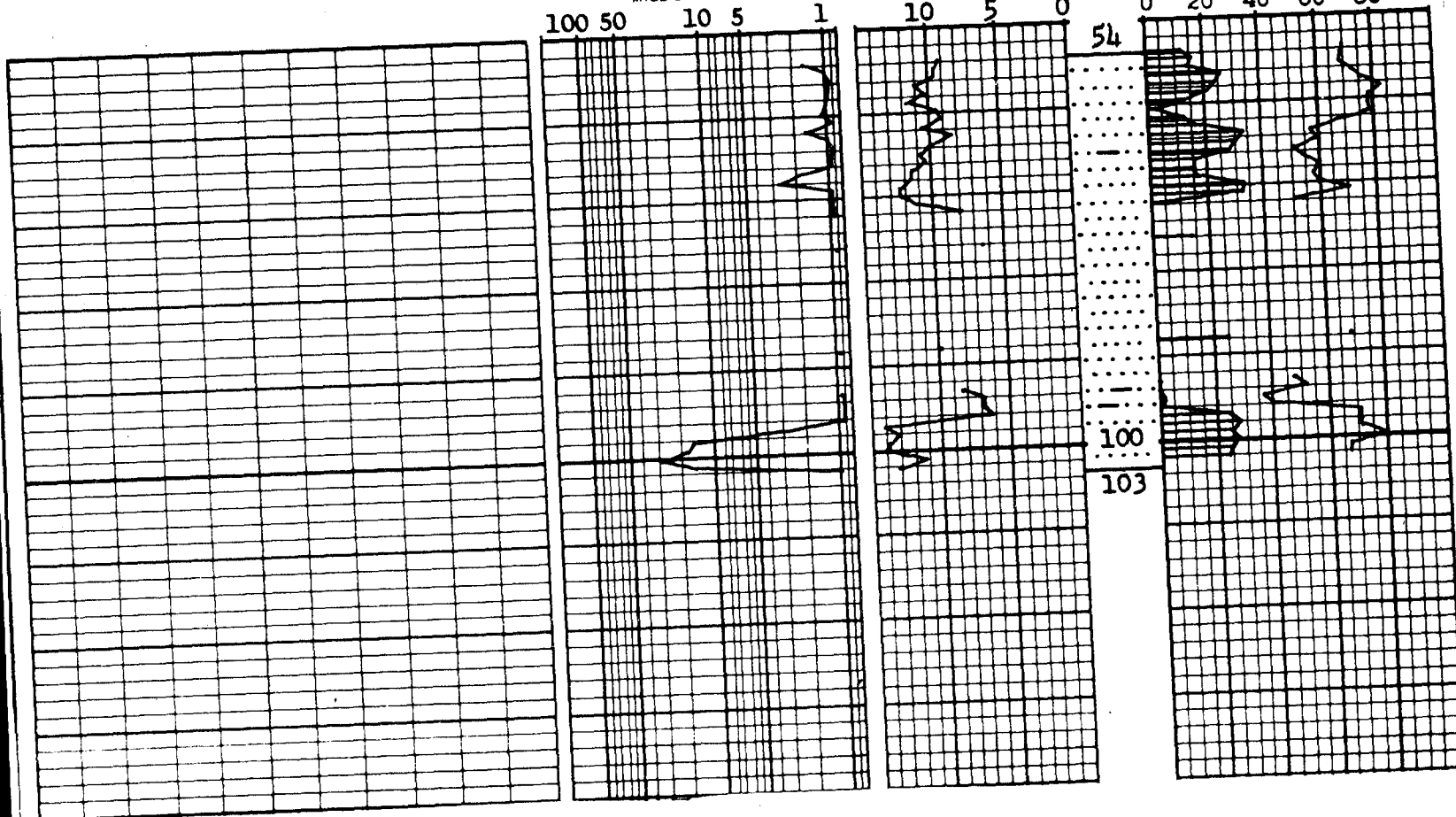
PERCENT

10 5 0

OIL SATURATION

PERCENT PORE SPACE

0 20 40 60 80



CL 529

CORE SUMMARY AND CALCULATED RECOVERABLE OIL

FORMATION NAME AND DEPTH INTERVAL: Shinarump - 54.0-72.8 Feet

FEET OF CORE RECOVERED FROM ABOVE INTERVAL	19	AVERAGE TOTAL WATER SATURATION: PER CENT OF PORE SPACE	34.1
FEET OF CORE INCLUDED IN AVERAGES	19	AVERAGE CONNATE WATER SATURATION: PER CENT OF PORE SPACE	25 (e)
AVERAGE PERMEABILITY: MILLIDARCYs	0.69	OIL GRAVITY: °API	20 (e)
PRODUCTIVE CAPACITY: MILLIDARCY-Feet	13.1	ORIGINAL SOLUTION GAS-OIL RATIO: CUBIC FEET PER BARREL	
AVERAGE POROSITY: PER CENT	10.4	ORIGINAL FORMATION VOLUME FACTOR: BARRELS SATURATED OIL PER BARREL STOCK-TANK OIL	1.05 (e)
AVERAGE RESIDUAL OIL SATURATION: PER CENT OF PORE SPACE	18.9	CALCULATED ORIGINAL STOCK-TANK OIL IN PLACE: BARRELS PER ACRE-FOOT	577

Calculated maximum solution gas drive recovery is barrels per acre-foot, assuming production could be continued until reservoir pressure declined to zero psig. Calculated maximum water drive recovery is barrels per acre-foot, assuming full maintenance of original reservoir pressure, 100% areal and vertical coverage, and continuation of production to 100% water cut. (Please refer to footnotes for further discussion of recovery estimates.)

FORMATION NAME AND DEPTH INTERVAL:		Shinarump - 97.0-103.0 Feet	
FEET OF CORE RECOVERED FROM ABOVE INTERVAL	6	AVERAGE TOTAL WATER SATURATION: PER CENT OF PORE SPACE	29.1
FEET OF CORE INCLUDED IN AVERAGES	6	AVERAGE CONNATE WATER SATURATION: PER CENT OF PORE SPACE	25 (e)
AVERAGE PERMEABILITY: MILLIDARCYs	13.8	OIL GRAVITY: °API	20 (e)
PRODUCTIVE CAPACITY: MILLIDARCY-Feet	82.8	ORIGINAL SOLUTION GAS-OIL RATIO: CUBIC FEET PER BARREL	
AVERAGE POROSITY: PER CENT	13.3	ORIGINAL FORMATION VOLUME FACTOR: BARRELS SATURATED OIL PER BARREL STOCK-TANK OIL	1.05 (e)
AVERAGE RESIDUAL OIL SATURATION: PER CENT OF PORE SPACE	25.3	CALCULATED ORIGINAL STOCK-TANK OIL IN PLACE: BARRELS PER ACRE-FOOT	737

Calculated maximum solution gas drive recovery is barrels per acre-foot, assuming production could be continued until reservoir pressure declined to zero psig. Calculated maximum water drive recovery is barrels per acre-foot, assuming full maintenance of original reservoir pressure, 100% areal and vertical coverage, and continuation of production to 100% water cut. (Please refer to footnotes for further discussion of recovery estimates.)

(c) Calculated (e) Estimated (m) Measured (*) Refer to attached letter.

INTERPRETATION OF DATA

- 54.0-72.8 Feet - Characteristics indicating oil production, however, because of probable limited gas in solution, primary production may be limited. A formation treatment will be needed.
- 76.3-89.1 Feet - Insufficient samples analyzed to permit interpretation.
- 93.0-97.0 Feet - Non-productive.
- 97.0-103.0 Feet- Oil productive, however, production will be limited due to low gas in solution. Formation treatment will be necessary.

These recovery estimates represent theoretical maximum values for solution gas and water drive. They assume that production is started at original reservoir pressure; i.e., no account is taken of production to date or of prior drainage to other areas. The effects of factors tending to reduce actual ultimate recovery, such as economic limits on oil production rates, gas-oil ratios, or water-oil ratios, have not been taken into account. Neither have factors been considered which may result in actual recovery intermediate between solution gas and complete water drive recoveries, such as gas cap expansion, gravity drainage, or partial water drive. Detailed predictions of ultimate oil recovery to specific abandonment conditions may be made in an engineering study in which consideration is given to overall reservoir characteristics and economic factors.

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc., and its officers and employees assume no responsibility and make no warranty or representation as to the productivity, proper operation, or profitability of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
1588 West North Temple
Salt Lake City, Utah 84116

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number _____

Operator St. Croix Exploration

Address 2471 Angell Road, St. Paul, MN.

Contractor MGM Drilling

Address Moab, Utah

Location SE 1/4 NW 1/4; Sec. 36; T. 24^S; R. 11^E; Emery County

Water Sands:

	Depth: From - To -	Volume: Flow Rate or Head -	Quality: Fresh or Salty -
1.	<u>144</u> <u>154</u>	<u>400 Gallons/8 hours</u>	<u>Slightly sulfur</u>
2.	_____	_____	_____
3.	_____	_____	_____
4.	_____	_____	_____
5.	_____	_____	_____

(Continue on Reverse Side if Necessary)

Formation Tops:

Surface sand	0 - 8'
Moss back	8 - 154'
Moenkopi	154 - 202

- NOTE: (a) Upon diminishing supply of forms, please inform this office.
(b) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure.
(c) If a water quality analysis has been made of the above reported zone, please forward a copy along with this form.



ST. CROIX EXPLORATION COMPANY

~~1850 Hennepin Parkway, Suite 100~~ 1360 Shelard Tower
~~Minneapolis, Minnesota 55420~~ Minneapolis, MN 55426
~~612/854-1787~~ 612/546-3903

~~188 WOOD Building~~
~~Minneapolis, Minnesota 55402~~
~~612/336-9787~~

May 14, 1982

Ms. Cari Furse
State of Utah
Natural Resources and Energy
Oil, Gas & Mining
4241 State Office Building
Salt Lake City, Utah 84114

Dear Ms. Cari Furse:

Enclosed are "Sundry Notices and Reports on Wells"
Numbers 1, 2, 5 in Sec 36, T24S, R11E.
Emery County, Utah

We regret any inconvenience caused by our not filing these reports timely. We shall file them monthly from this time forward.

Well reports on wells 3 and 4 in Section 36 and on wells 1 and 3 in Section 32 will be completed Monday of next week.

We are conducting geological studies on the shallow and deep formations which should be completed within 90 days and lead us to propose on going field operations.

We hope this fulfills our requirements.

Sincerely yours,

Stanley R. Tyler
Vice President

Enclosures
SRT:jd

RECEIVED
MAY 17 1982

INDEXED
MAY 17 1982

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPLICATE*
 (One Instructions on
 reverse side)

6

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
 Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> 2. NAME OF OPERATOR St. Croix Exploration 3. ADDRESS OF OPERATOR 1360 Shelard Tower, Minneapolis, MN 55426 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2314 FNL, 1626 FWL 14. PERMIT NO. API 43-015-300048-00		5. LEASE DESIGNATION AND SERIAL NO. ML 33432 6. IF INDIAN, ALLOTTEE OR TRIBE NAME 7. UNIT AGREEMENT NAME 8. FARM OR LEASE NAME Utah State 9. WELL NO. 1 10. FIELD AND FOOT, OR WILDCAT Wildcat 11. SEC., T., R., M., OR S.E. AND SURVEY OR AREA Sec 36, T24S, R11E 12. COUNTY OR PARISH Emery 13. STATE Utah
15. ELEVATIONS (Show whether OF, RT, OR, etc.) 5411 Gr		

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	<input type="checkbox"/>	PULL OR ALTER CASING	<input type="checkbox"/>	WATER SHUT-OFF	<input type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	MULTIPLE COMPLETE	<input type="checkbox"/>	FRACTURE TREATMENT	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	ABANDON*	<input type="checkbox"/>	SHOOTING OR ACIDIZING	<input type="checkbox"/>	ABANDONMENT*	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	CHANGE PLANS	<input type="checkbox"/>	(Other)	<input type="checkbox"/>		<input type="checkbox"/>
(Other)	<input type="checkbox"/>		<input checked="" type="checkbox"/>	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting and proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

No further work is planned until Project Review is completed.

RECEIVED
 JUL 07 1982

DIVISION OF
 OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED <u>Stanley A. Niles</u>	TITLE <u>Vice President</u>	DATE <u>June 30, 1982</u>
(This space for Federal or State office use)		
APPROVED BY _____	TITLE _____	DATE _____
COMMENTS OF APPROVAL, IF ANY:		



ST. CROIX EXPLORATION COMPANY

Handwritten signature

~~7850 Main St. Park Ave. Suite 102~~
~~Minneapolis, MN 55426~~
~~612/354-1787~~

1360 Shelard Tower
Minneapolis, MN 55426
612/546-3903

~~406 W. COOR ROAD BOX 106~~
~~MINNEAPOLIS, MINN. 55402~~
~~612/336-9761~~

July 30, 1982

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AUG 06 1982

Ms. Cari Furse
State of Utah
Natural Resources and Energy
Oil, Gas & Mining
4241 State Office Building
Salt Lake City, Utah

**DIVISION OF
OIL, GAS & MINING**

Dear Ms. Furse:

Enclosed are the monthly "Sundry Notices and Reports of Wells"
Numbers 1 and 3, Sec. 32, T24S, R12E, and Numbers 1, 2, 3,
4, and 5, Sec. 36, T24S, R11E, Emery County.

If you have any questions, please give us a call.

Sincerely,

Stanley R. Tyler
Stanley R. Tyler
Vice President

Encl.
jd

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. <input checked="" type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER	
2. NAME OF OPERATOR St. Croix Exploration	
3. ADDRESS OF OPERATOR 1360 Shelard Tower, Minneapolis, MN 55426	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2314 FNL, 1626 FWL	
16. PERMIT NO. API 43-015-300048-00	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5411 Gr

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AUG 06 1982

DIVISION OF
OIL, GAS & MINING

5. LEASE DESIGNATION AND SERIAL NO. ML 33432
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME Utah State
9. WELL NO. 1
10. FIELD AND POOL, OR WILDCAT Wildcat
11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA Sec 36, T24S, R11E
12. COUNTY OR PARISH Emery
13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

X

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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No further work is planned until Project Review is completed.

18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE

Vice President

DATE

7/30/82

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

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13. STATE Utah

18.

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TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

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SEP 01 1982

**DIVISION OF
OIL, GAS & MINING**

18. I hereby certify that the foregoing is true and correct

SIGNED

Stanley G. Taylor

TITLE

Vice President

DATE

8-30-82

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPLICATE*
(See instructions on
reverse side)

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15. ELEVATIONS (Show whether OF, RT, GR, etc.) 5411 Gr		10. FIELD AND FOOT, OR WILDCAT Wildcat
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		13. STATE Utah

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TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	
(Other) <input type="checkbox"/>	<input checked="" type="checkbox"/>	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

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RECEIVED

MAY 13 1983

DIVISION OF
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED Stanley B. Rydberg TITLE Vice President DATE 5/10/83

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY: _____

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

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Use "APPLICATION FOR PERMIT—" for such proposals.)

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TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETION <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input checked="" type="checkbox"/>	(Other) <input type="checkbox"/>	(Other) <input type="checkbox"/>

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No further work is planned until Project Review is completed.

RECEIVED
JUN 13 1993

DIVISION OF
OIL GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED

Stanley A. Kyle

TITLE

Vice President

DATE

6/10/83

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPLICATE*
See instructions on
reverse side)

7

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different depth.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. ML 33432
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15. ELEVATIONS (Show whether DV, RT, GR, etc.) 5411 Gr		12. COUNTY OR PARISH Emery
		13. STATE Utah

RECEIVED
JUL 11 1983
DIVISION OF OIL GAS & MINING

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	FULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	(Other) <input type="checkbox"/>
(Other) <input type="checkbox"/>	<input checked="" type="checkbox"/>	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

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No further work is planned until Project Review is completed.

18. I hereby certify that the foregoing is true and correct

SIGNED

Stanley B. Tyler

TITLE Vice President

DATE July 11, 1983

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPlicate*
 (See instructions on
 reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
 Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO ML 33432	
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14. PERMIT NO. API 43-015-300048-0		9. WELL NO. 1	
15. ELEVATIONS (Show whether OF, AT, OR, etc.) 5411 Gr		10. FIELD AND POOL, OR WILDCAT Wildcat	
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec 36, T24S, R11E	
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting and completion or Recompletion Report and Log form.)		12. COUNTY OR PARISH Emery	
18. I hereby certify that the foregoing is true and correct		13. STATE Utah	

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐(Other) ☐PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON* ☐CHANGE PLANS ☐

XXX

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☐(Other) ☐REPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT* ☐

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting and completion or Recompletion Report and Log form.)

No further work is planned until Project Review is completed.

18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE

Vice President

DATE

8/10/83

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

COORD. OF APPROVAL, IF ANY:

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPLICATE*
 (See instructions on
 reverse side)

17

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
 Use "APPLICATION FOR PERMIT—" for such proposals.)

1. <input type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. ML 33432
2. NAME OF OPERATOR St. Croix Exploration		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR 1360 Shelard Tower, Minneapolis, MN 55426		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2314 FNL, 1626 FWL		8. FARM OR LEASE NAME Utah State
14. PERMIT NO. API 43-015-300048-00		9. WELL NO. 1
15. ELEVATIONS (Show whether OF, AT, OR, etc.) 5411 Gr		10. FIELD AND POOL, OR WILDCAT Wildcat
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data		11. SEC., T., R., M., OR B.L. AND SURVEY OR AREA Sec 36, T24S, R11E
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting and completion of this work.)		12. COUNTY OR PARISH Emery
18. I hereby certify that the foregoing is true and correct		13. STATE Utah

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

☐
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☐

PULL OR ALTER CASING

☐
☐
☐
☐

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANS

(Other)

☒

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

☐
☐
☐

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

☐
☐
☐

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting and completion of this work.)

No further work is planned until Project Review is completed.

RECEIVED
 SEP 13 1983

DIVISION OF
 OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED

B. L. Canby

TITLE

Vice President

DATE

9/09/83

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

MIT IN TRIPLICATE*
 other instructions on
 reverse side)

M

SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)		5. LEASE DESIGNATION AND SERIAL NO. ML 33432
1. <input type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR St. Croix Exploration		7. UNIT AGREEMENT NAME
3. ADDRESS OF OPERATOR 1360 Shelard Tower, Minneapolis, MN 55426		8. FARM OR LEASE NAME Utah State
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2314 FNL, 1626 FWL		9. WELL NO. 1
14. PERMIT NO. API 43-015-300048-00		10. FIELD AND POOL, OR WILDCAT Wildcat
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5411 Gr		11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA Sec 36, T24S, R11E
12. COUNTY OR PARISH Emery		13. STATE Utah

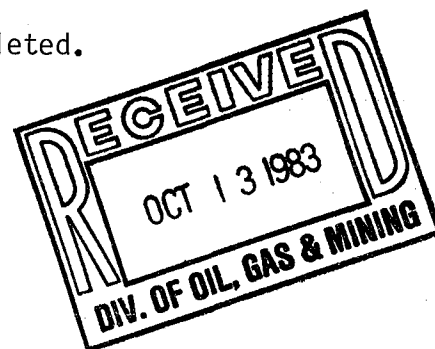
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input checked="" type="checkbox"/>	(Other) <input type="checkbox"/>	(Other) <input type="checkbox"/>

*NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

No further work is planned until Project Review is completed.



18. I hereby certify that the foregoing is true and correct

SIGNED Stanley A. Taylor TITLE Vice President DATE 10/10/83

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY: _____

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

STAMP IN TRIPLICATE*
(other instructions on
reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. ML 33432
2. NAME OF OPERATOR St. Croix Exploration		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR 1360 Shelard Tower, Minneapolis, MN 55426		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2314 FNL, 1626 FWL		8. FARM OR LEASE NAME Utah State
14. PERMIT NO. API 43-015-300048-00		9. WELL NO. 1
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5411 Gr.		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., S., M., OR B.L. AND SURVEY OR AREA Sec 36, T24S, R11E
		12. COUNTY OR PARISH Emery
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	XXX <input checked="" type="checkbox"/>

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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No further work is planned until Project Review is completed.

RECEIVED
NOV 16 1983

DIVISION OF
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED

[Signature]

TITLE Vice President

DATE 11/14/83

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPLICATE*
(See instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. <input checked="" type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. ML 33432
2. NAME OF OPERATOR St. Croix Exploration		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR 1360 Shelard Tower, Minneapolis, MN 55426		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2314 FNL, 1626 FWL		8. FARM OR LEASE NAME Utah State
14. PERMIT NO. API 43-015-300048-00	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5411 Gr	9. WELL NO. 1
		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR B.L. AND SURVEY OR AREA Sec 36, T24S, R11E
		12. COUNTY OR PARISH Emery
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐(Other) ☐PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON* ☐CHANGE PLANS ☐

XXX

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☐(Other) ☐REPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT* ☐

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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No further work is planned until Project Review is completed.

RECEIVED
DEC 19 1983

DIVISION OF
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED Stanley B. Taylor TITLE Vice President

DATE 12/12/83

(This space for Federal or State office use)

APPROVED BY _____

TITLE _____

DATE _____

COMMENTS OF APPROVAL, IF ANY: _____

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. ML 33432	
2. NAME OF OPERATOR St. Croix Exploration		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR 1360 Shelard Tower, Minneapolis, MN 55426		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2314 FNL, 1626 FWL		8. FARM OR LEASE NAME Utah State	
14. PERMIT NO. API 43-015-300048-00		9. WELL NO. 1	
15. ELEVATIONS (Show whether OF, ST, GR, etc.) 5411 Gr		10. FIELD AND POOL, OR WILDCAT Wildcat	
		11. SEC., T., R., M., OR B.L. AND SUBST. OR AREA Sec 36, T24S, R11E	
		12. COUNTY OR PARISH Emery	13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐(Other) ☐PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON* ☐CHANGE PLANS ☐

XXX

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☐(Other) ☐REPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT* ☐

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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No further work is planned until Project Review is completed.

RECEIVED
JAN 16 1984

DIVISION OF
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED

Stanley A. Nelson

TITLE

Vice President

DATE

1/12/84

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

COMMENTS OF APPROVAL, IF ANY:

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. ML 33432
2. NAME OF OPERATOR St. Croix Exploration		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR 1360 Shelard Tower, Minneapolis, MN 55426		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 2314 FNL, 1626 FWL		8. FARM OR LEASE NAME Utah State
14. PERMIT NO. API 43-015-300048-00		9. WELL NO. 1
15. ELEVATIONS (Show whether OF, RT, OR, etc.) 5411 Gr		10. FIELD AND POOL, OR WILDCAT Wildcat
16. DIVISION OF OIL, GAS & MINING		11. SEC., T., R., M., OR B.L. AND SURVEY OR AREA Sec 36, T24S, R11E
		12. COUNTY OR PARISH Emery
		13. STATE Utah

18. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	(Other) <input type="checkbox"/>
(Other) <input type="checkbox"/>	XXX <input type="checkbox"/>	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting and completion of this work.)

No further work is planned until Project Review is completed.

19. I hereby certify that the foregoing is true and correct

SIGNED Stanley B. Tyler TITLE V. Pres. DATE 2-14-84

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY: _____

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

PRINT IN TRIPLICATE*
 (other instructions on
 reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
 Use "APPLICATION FOR PERMIT—" for such proposals.)

1. <input type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. ML 33432
2. NAME OF OPERATOR St. Croix Exploration		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR 1360 Shelard Tower, Minneapolis, MN 55426		7. UNIT AGREEMENT NAME
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15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5411 Gr		10. FIELD AND POOL, OR WILDCAT Wildcat
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data		11. SEC., T., S., M., OR B.L. AND SURVEY OR AREA Sec 36, T24S, R11E
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting and proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*		12. COUNTY OR PARISH Emery
18. I hereby certify that the foregoing is true and correct		13. STATE Utah

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

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☐

PULL OR ALTER CASING

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☐
☐
☐
☐

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANS

(Other)

XXX

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

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☐
☐
☐

FRACTURE TREATMENT

REPAIRING WELL

SHOOTING OR ACIDIZING

ALTERING CASING

(Other)

ABANDONMENT*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting and proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

No further work is planned until Project Review is completed.

RECEIVED

MAR 19 1984

**DIVISION OF
OIL, GAS & MINING**

18. I hereby certify that the foregoing is true and correct

SIGNED

B. J. Case

TITLE

V. F.

DATE

3/13/84

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. ML 33432
2. NAME OF OPERATOR St. Croix Exploration		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR 1360 Shelard Tower, Minneapolis, MN 55426		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2314 FNL, 1626 FWL		8. FARM OR LEASE NAME Utah State
14. PERMIT NO. API 43-015-300048-00		9. WELL NO. 1
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5411 Gr		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR S.E. AND SURVEY OR AREA Sec 36, T24S, R11E
		12. COUNTY OR PARISH Emery
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	XXX <input type="checkbox"/>

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <input type="checkbox"/>	

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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No further work is planned until Project Review is completed.

RECEIVED

APR 12 1984

DIVISION OF OIL
GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED

Stanley A. Taylor

TITLE

Vice Pres.

DATE

4-10-84

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN **DUPLICATE***
 (Other instructions on
 reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
 Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> 2. NAME OF OPERATOR St. Croix Exploration 3. ADDRESS OF OPERATOR 430 First Avenue North, Suite #640, Minneapolis, MN 55401 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2314 FNL, 1626 FWL		5. LEASE DESIGNATION AND SERIAL NO. ML 33432 6. IF INDIAN, ALLOTTEE OR TRIBE NAME 7. UNIT AGREEMENT NAME 8. FARM OR LEASE NAME Utah State 9. WELL NO. 1 10. FIELD AND POOL, OR WILDCAT Wildcat 11. SEC., T., R., N., OR BLK. AND SURVEY OR AREA Sec 36, T24S, R11E 12. COUNTY OR PARISH 13. STATE Emery Utah
14. PERMIT NO. API 43-015-300048-00	15. ELEVATIONS (Show whether DF, RT, OR, etc.) 5411 Gr	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐(Other) ☐PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON* ☐CHANGE PLANS ☐

XX

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☐(Other) ☐REPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT* ☐

(NOTE: Report results of multiple completion on Well
 Completion or Recompletion Report and Log form.)

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No further work is planned until Project Review is completed.

RECEIVED

MAY 4 1984

DIVISION OF OIL
 GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE

Vice President

DATE

5/11/84

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPPLICATE*
 (Other instructions on
 reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

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 Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. ML 33432	
2. NAME OF OPERATOR St. Croix Exploration		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR 430 First Avenue North, Suite #640, Minneapolis, MN 55401		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2314 FNL, 1626 FWL		8. FARM OR LEASE NAME Utah State	
14. PERMIT NO. API 43-015-30048-00		9. WELL NO. 1	
15. ELEVATIONS (Show whether SP, ST, OR, etc.) 5411 Gr		10. FIELD AND POOL, OR WILDCAT Wildcat	
16. COUNTY OR PARISH Emery		11. SEC., T., R., N., OR S.E. AND SURVEY OR AREA Sec 36, T24S, R11E	
17. STATE Utah		12. COUNTY OR PARISH Emery	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	<input type="checkbox"/>	PULL OR ALTER CASING	<input type="checkbox"/>	WATER SHUT-OFF	<input type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	MULTIPLE COMPLETE	<input type="checkbox"/>	FRACTURE TREATMENT	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
SHOOT OR ACIDISE	<input type="checkbox"/>	ABANDON*	<input type="checkbox"/>	SHOOTING OR ACIDIZING	<input type="checkbox"/>	ABANDONMENT*	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	CHANGE PLANS	<input type="checkbox"/>	(Other)	<input type="checkbox"/>		<input type="checkbox"/>
(Other)	<input type="checkbox"/>		<input checked="" type="checkbox"/>	(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

No further work is planned until Project Review is completed.

RECEIVED

JUN 11 1984

DIVISION OF OIL
 GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED Therese A. Hynes

TITLE Vice President

DATE 6/8/84

(This space for Federal or State office use)

APPROVED BY _____

TITLE _____

DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPLICATE*
 (Other actions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
 Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. ML 33432																				
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No further work is planned until Project Review is completed.

RECEIVED

JUL 13 1984

DIVISION OF OIL
GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE

Vice President

DATE

7/11/84

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN DUPLICATE*
(Other instructions on
reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

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2. NAME OF OPERATOR St. Croix Exploration		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR 430 First Avenue North, Suite #640, Minneapolis, MN 55401		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2314 FNL, 1626 FWL		8. FARM OR LEASE NAME Utah State
14. PERMIT NO. API 43-015-30048-00		9. WELL NO. 1
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		12. COUNTY OR PARISH Emery
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDISE ☐

REPAIR WELL ☐

(Other) ☐

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

ABANDON* ☐

CHANGE PLANS ☒

WATER SHUT-OFF ☐

FRACTURE TREATMENT ☐

SHOOTING OR ACIDIZING ☐

(Other) ☐

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ALTERING CASING ☐

ABANDONMENT* ☐

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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No further work is planned until Project Review is completed.

RECEIVED

AUG 13 1984

DIVISION OF OIL
GAS & MINING

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SIGNED

TITLE

Vice President

DATE

August 10, 1984

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

RAINY RIVER RESOURCES

430 1ST AVENUE NORTH, SUITE 640
MINNEAPOLIS, MINNESOTA 55401
612/343-0310

RECEIVED

September 20, 1984

SEP 24 1984

Ms. Vicki Carney
Natural Resources & Energy
Division of Oil, Gas & Mining
4241 State Office Building
Salt Lake City, Utah 84114

DIVISION OF OIL
GAS & MINING

Dear Ms. Carney:

Enclosed please find a letter from Mr. Stanley R. Tyler, president of St. Croix Exploration, regarding the six wells in Emery County, Utah.

I hope this is satisfactory in answering your questions about the status of the wells. As always, please contact us with any questions that may arise.

Sincerely,

Patrice Carlson

Patrice M. Carlson

Enclosure

:pmc

RAINY RIVER RESOURCES

430 1ST AVENUE NORTH, SUITE 640
MINNEAPOLIS, MINNESOTA 55401
612/343-0310

September 20, 1984

State of Utah
Natural Resources & Energy
Division of Oil, Gas & Mining
4241 State Office Building
Salt Lake City, Utah 84114

RE: Monthly Production Reports
Emery County, Utah

Gentlemen:

During our drilling activities in Emery County (dba St. Croix Exploration) which began in 1977 and continues to the present time, we have encountered oil saturation in five (5) to seven (7) zones of interest ranging from the Mossback sandstone member of the Chinle formation, the Moenkopi sands and limestones and the Permian, Kaibab limestone.

Early drilling and core analyses gave significant figures for oil in place in the Mossback sand, ranging from 500 to 945 barrels of oil per acre foot in place. The gravity of this oil varied between 17° and 27° API.

Drilling to the deeper zones of interest confirmed additional oil accumulation in sands and limestones.

It became obvious there was a lack of reservoir energy in these formations. We drilled at varying depths and locations in an effort to prove reservoir continuity and possibly establish primary commercial oil production.

Pipe was set on several wells and they were perforated. Unfortunately this did not establish production through normal completion activities.

We became interested in determining what methods were available to the industry for recovering low gravity oil. This led to research into the many techniques available. This took time, but has helped in developing a microwave test program that is expected to start late this year.

September 20, 1984
State of Utah
Page Two

The wells previously drilled have been left in a condition to permit reentry in order to test the research tools.

We have not established commercial production from any of our wells and would prefer to list them as temporarily shut-in. Upon establishing production we will promptly file monthly production reports.

Sincerely,

A handwritten signature in cursive script, reading "Stanley R. Tyler". The signature is written in dark ink and is positioned above the typed name and title.

Stanley R. Tyler
President

SRT:pmc

RAINY RIVER RESOURCES

430 1ST AVENUE NORTH, SUITE 640
MINNEAPOLIS, MINNESOTA 55401
612/343-0310

February 27, 1985

Mr. William Moore
Oil and Gas Field Specialist
State of Utah - Natural Resources
355 West North Temple
3 Triad Center, Suite #350
Salt Lake City, Utah 84180-1203

RE: Utah State 1-5
Sec 36, T24S, R11E
Emery County, Utah
Utah Lease No. ML-33432

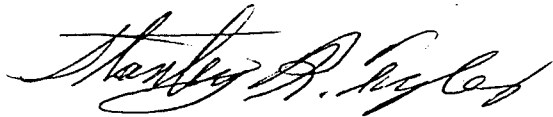
Dear Mr. Moore:

We have caused the pits used in drilling these wells to be filled and the locations cleaned up as you requested.

Signs are being made and will be installed, probably within 45 days.

We intend to monitor the results of our futher drilling and testing activities in order to avoid these problems in the future.

Sincerely,



Stanley R. Tyler
President

SRT:pmc

RECEIVED

MAR 01 1985

DIVISION OF OIL
GAS & MINING

file

APR 12 1985

RAINY RIVER RESOURCES

430 1ST AVENUE NORTH, SUITE 640
MINNEAPOLIS, MINNESOTA 55401
612/343-0310

DESIGNATION OF OPERATOR

The undersigned is, on the records of the Department of Natural Resources, Division of State Lands, holder of Lease No. ML33432 and hereby designates:

Rainy River Resources, Inc.
430 First Avenue North
Suite #640
Minneapolis, MN 55401

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the leases and regulations applicable thereto and on whom the Director of the Division of State Lands or his representative may serve written or oral instructions in securing compliance with the Rules and Regulations Governing the Issuance of Mineral Leases with respect to:

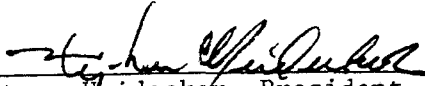
Section 36, T24S, R11E, Emery County, Utah, as part
of Lease No. ML33432

Utah State #1

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Rules and Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

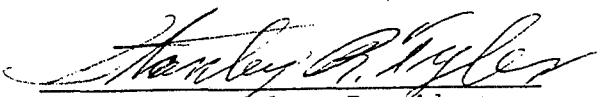
In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Director, Division of State Lands or his representative.

The lessee agrees promptly to notify the Division of State Lands of any change in the designated operator.


Steve Heidecker, President
Nugget Oil Corporation
7850 Metro Parkway, Suite #208
Bloomington, MN 55420

Date

4/15/85


Stanley R. Tyler, President
St. Croix Exploration Company
430 1st Avenue North, #640
Minneapolis, MN 55401

Date

4-11-85

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

111918

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> Permission to Plug & Abandon		5. LEASE DESIGNATION AND SERIAL NO. ML 33432	
2. NAME OF OPERATOR Rainy River Resources dba St. Croix Exploration		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR 430 1st Ave. N. Suite 640, Minneapolis, MN 55401		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2314 FNL, 1626 FWL		8. FARM OR LEASE NAME Utah State	
14. PERMIT NO. API 43-015-30048-00		9. WELL NO. 1	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5411 GR		10. FIELD AND POOL, OR WILDCAT Wildcat	
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec 36, T24S, R11E		12. COUNTY OR PARISH Emery	
13. STATE Utah			

RECEIVED
NOV 10 1986

DIVISION OF OIL, GAS & MINING

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
<input checked="" type="checkbox"/> TEST WATER SHUT-OFF	<input type="checkbox"/> PULL OR ALTER CASING	<input type="checkbox"/> WATER SHUT-OFF	<input type="checkbox"/> REPAIRING WELL
<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> MULTIPLE COMPLETE	<input type="checkbox"/> FRACTURE TREATMENT	<input type="checkbox"/> ALTERING CASING
<input type="checkbox"/> SHOOT OR ACIDIZE	<input type="checkbox"/> ABANDON*	<input type="checkbox"/> SHOOTING OR ACIDIZING	<input type="checkbox"/> ABANDONMENT*
<input type="checkbox"/> REPAIR WELL	<input type="checkbox"/> CHANGE PLANS	<input type="checkbox"/> (Other)	<input type="checkbox"/> (Other)

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Plan for Plugging and Abandon Well #1
Reason: No commercial production

Move in and rig up rig. RIH w bailer to TD and check for fluid. If hole filled or partially filled with water, proceed with P & A. If oil is recovered, check quantity of oil in wellbore and report to Rainy River Resources for further instructions.

Set 20 sack plug from 205 to 60 across perforation. Fill hole.
Surf plug-10 sacks.

Cut off surface casing 3½ feet below ground level. Fill hole with drilling mud. Set 10 sack surface plug. Weld on plate and dry hole markers.
Reclaim location.

18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE

DATE

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE

BY

*See Instructions on Reverse Side

Macdonald Resources, Inc.

6662 East Long Avenue
Englewood, CO 80112
(303) 694-9447

February 21, 1987

RECEIVED
MAR 02 1987

**DIVISION OF
OIL, GAS & MINING**

Mr. John Baza, Petroleum Engineer
State of Utah
Division of Oil, Gas, & Mining
3 Triad Center, Ste. 350
Salt Lake City, Utah 84180-1203

re: Rainy River Resources dba St. Croix Exploration
Sundry Notices & Reports on Well Abandonments
in Emery County Utah

Dear Mr. Baza:

On behalf of Rainy River Resources, we have enclosed
Sundry Notices & Reports for the nine wells which were
recently abandoned.

Yours truly,



Bruce N. Gies

Encl.

cc: Mr. Stan Tyler
Rainy River Resources

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT **TRIPPLICATE***
(Other instructions on
reverse side)

50W 6

SUNDRY NOTICES AND REPORTS ON WELLS

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Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Abandonment		5. LEASE DESIGNATION AND SERIAL NO. ML 33432
2. NAME OF OPERATOR Rainy River Resources dba St. Croix Exploration		6. IF INDIAN, ALLOTTEE OR TRIBE NAME 030404
3. ADDRESS OF OPERATOR 430 1st Ave. N., Suite 640 Minneapolis, MN 55401		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2314 FNL, 1626 FWL		8. FARM OR LEASE NAME Utah State
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SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>
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Well #1 - Fluid level 20 ft. below surface, fluid was water.
Feb. 12, 1987 - Well #1 - Rig up, RIH, tag bottom @ 190 ft.
Mix & pump 20 sack cement plug at 190 ft. which filled hole with cement slurry. Install dry hole marker.

RECEIVED
MAR 02 1987

DIVISION OF
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED B.N. Gies *BNG* TITLE Consultant DATE 2/26/87

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE: 3-3-87
BY: R. B. B.

*See Instructions on Reverse Side